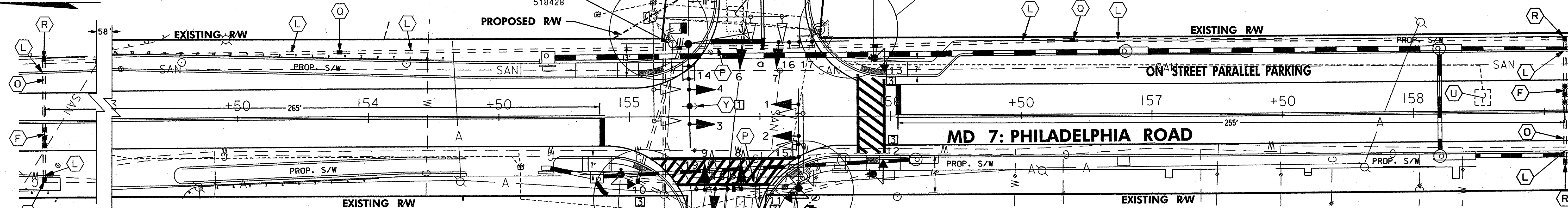


MD 7 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

CONSTRUCTION DETAILS

- INSTALL 27' STEEL POLE (CUT TO 21') WITH TWIN 50' (CUT TO 40') X 50' (CUT TO 34') MAST ARMS WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTOR CAMERAS (NOTE: 1-3" PVC BEND). INSTALL COUNTDOWN LED PEDESTRIAN SIGNAL HEADS AND NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON AND SIGNS ON PROPOSED SIGNAL POLE.
- INSTALL 27' STEEL POLE WITH TWIN 60' (CUT TO 52') X 50' (CUT TO 40') MAST ARMS WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTOR CAMERAS AND 20' LIGHTING ARM WITH 250 W HPS. PEDESTRIAN HEAD, PUSHBUTTON AND SIGNS (NOTE: 1-3" PVC BEND).
- INSTALL 10' PEDESTAL POLE WITH BREAKAWAY BASE, COUNTDOWN PEDESTRIAN SIGNAL HEADS AND NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON AND SIGNS. (NOTE: 1-3" 90° PVC BEND).
- INSTALL METERED SERVICE PEDESTAL. (NOTE: 1-4" 90° AND 2-2" 90° PVC BENDS) TO THE HANDHOLE.
- INSTALL A SIZE "6" BASE-MOUNTED CABINET WITH NEMA CONTROLLER AND ALL NECESSARY EQUIPMENT. (NOTE: 2-4" PVC AND 2-2" PVC BENDS.)
- INSTALL NON-INVASIVE MICROLOOP PROBES WITH 500 FT. LEAD-IN CABLE. (TO BE PLACED IN THRU LANE ONLY).
- VIDEO DETECTION ZONE.
- REMOVE EXISTING PEDESTAL POLE AND ALL ATTACHED EQUIPMENT AND FOUNDATION 12" BELOW GROUND GRADE.
- EXISTING OVERHEAD SERVICE DROP TO BE REMOVED BY BG&E.

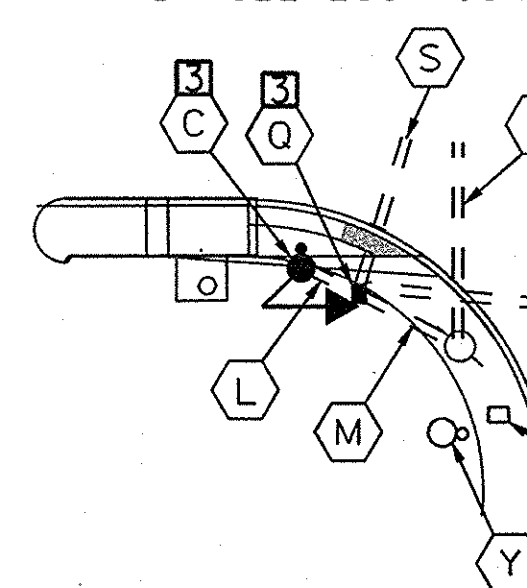
TO BALTIMORE CITY



CONSTRUCTION DETAILS cont.

- INSTALL 2" SCHEDULE 80 RIGID PVC - TRENCHED.
- INSTALL 3" SCHEDULE 80 RIGID PVC - TRENCHED PRIOR TO FINAL S/W POUR.
- INSTALL 4" SCHEDULE 80 RIGID PVC - TRENCHED PRIOR TO FINAL S/W POUR.
- INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- INSTALL HANDHOLE.
- INSTALL HANDHOLE PRIOR TO FINAL SIDEWALK POUR.
- INSTALL 4" (SIGNAL) + 2" (PHONE) CONDUITS TOGETHER IN THE SAME SLOT UNDER THE ROAD AND TRENCH REMAINING AREAS.
- INSTALL 4" CONDUIT FOR INSTALLATION OF SERVICE BY BGE #518431. PROVIDE 1' STUB AT BASE WITH PULL STRING. SLOT ROADWAY, TRENCH REMAINING AREA.
- DISCONNECT AND ABANDON EXISTING PROBES/ LOOP DETECTORS.
- REMOVE EXISTING HANDHOLE, CAP AND ABANDON EXISTING CONDUIT.
- REMOVE EXISTING POLE, MAST ARM, ALL ATTACHED EQUIPMENT AND FOUNDATION 12" BELOW GROUND GRADE AND BACKFILL.
- REMOVE EXISTING POLE MOUNTED CONTROLLER AND CABINET.
- INSTALL OPTICOM ON MAST ARM FACING MD 7 WESTBOUND.

REVISE POLE AND HAND HOLE LOCATION



GREEN LINE NO. 1, TRAFFIC
REPLACE SHEET NO. 164
DATE: MAY 29, 2008

GREEN LINE NO. 3, TRAFFIC
REPLACE SHEET NO. 164
DATE: OCTOBER 6, 2008

GENERAL NOTES

- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

AERIAL CABLE DETAIL

PRIMARY	36" +
SECONDARY	27" 2"
NEUTRAL	26" 1"
CABLE	23" 2"
TELEPHONE	22" 5"
GRADE	

GENERAL NOTES cont.

- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTION, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED EQUIPMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAL OPERATION DURING THE COMPLETE CONSTRUCTION PERIOD.
- CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE AND DELIVERY OF THE CENTRAL CONTROL NAVIGATOR UNIT FOR THE CONTROLLER TO THE SHA SIGNAL SHOP AT 7491 CONNELLEY DR., HANOVER, MD 21076. MR. EDWARD ROSENHIZER AT (410) 787-7652 SHALL BE CONTACTED SEVENTY-TWO (72) HOURS PRIOR TO DELIVERY.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MR. ROBERT SMITH, OOTS. AT (410) 787-7631 TO ARRANGE PHONE DROP. THE CONTRACTOR SHALL PROVIDE SEVENTY-TWO (72) HOURS NOTICE PRIOR TO COMPLETION OF THE PROJECT AND SHALL PROVIDE THE NEAREST ADDRESS.

UTILITY LEGEND

SD	SD	STORM DRAIN
G	G	GAS MAIN
W	W	WATER MAIN
S	S	SEWER MAIN
E	E	ELECTRIC CABLES
A	A	AERIAL CABLES
T	T	TELEPHONE CABLES
F	F	FIBER-OPTIC

APPROVALS

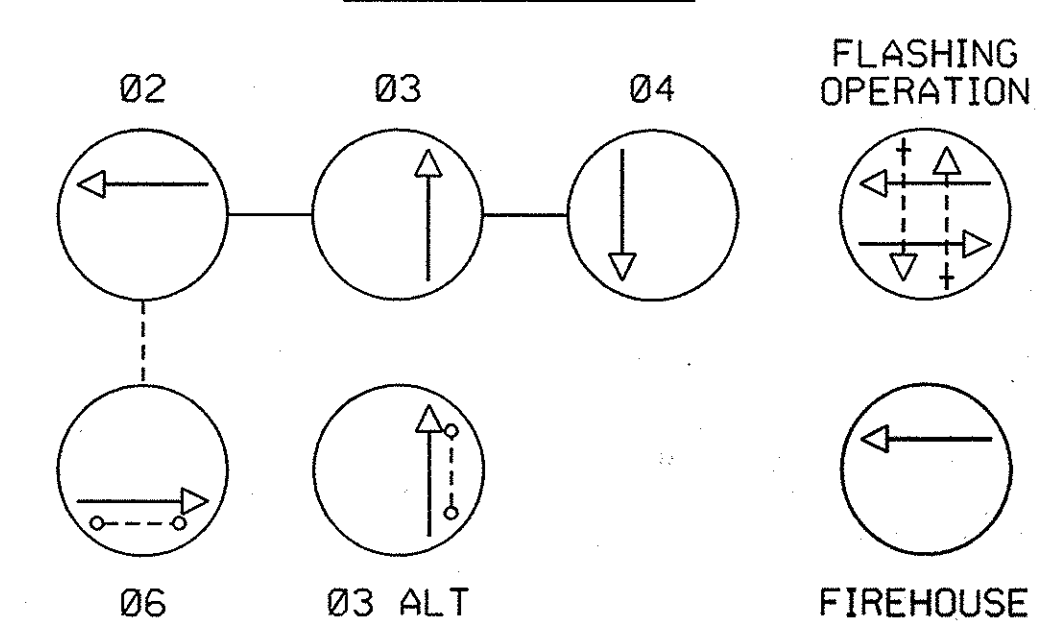
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS

NO.	DESCRIPTION	DATE
1	REPLACE EQUIP., ADD VIDEO CAMERAS & AUDIO PED'S SHA NO. 84685185.	10-11-06
2	REVISED LAYOUTS, POLES & CABINET, DELAY IN GEOMETRICS	12-3-80
3	REVISED DESIGN - NEW GEOMETRICS, COUNTY ROAD	1-24-80

PLOTTED: 04/07/06
FILE: 0105

NEMA PHASING



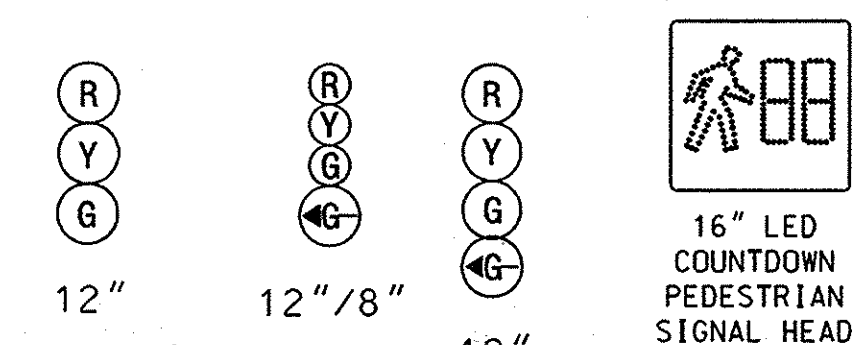
PHASING NOTES

- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

NOTE:
SEE DIMENSION DIAGRAM ON GENERAL INFORMATION SHEET FOR POLE, AND SIGNAL HEAD DIMENSIONS.

PROPOSED LED SIGNAL HEADS

1,2,3,4,7,9 5 6,8 10,11,12,13



VIDEO DETECTOR CAMERA

VIDEO CAMERA DETECTOR ZONE

METERED SERVICE PEDESTAL

DETECTABLE WARNING SURFACE

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 7 (PHILADELPHIA RD)
AND CHESACO AVE

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 4-24-74 CONTRACT NO. B-488-501-485

DESIGNED BY STEVE RENZI COUNTY BALTIMORE
DRAWN BY LOGMILE 030007000.95
CHECKED BY TZ T.J.M.S. NO. F189
F.A.P. NO. TOD NO.

DRAWING NO. TS-1157C SG-3 OF 9 SHEET NO. 164 OF

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

T3
design

T3 DESIGN, P.C.
3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
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BY: \$USERNAMES\$